

The background of the slide is a vibrant, futuristic digital landscape. It features a perspective view of a floor made of glowing pink and blue rectangular tiles. In the distance, there are several tall, angular, geometric structures that resemble stylized buildings or data towers. A large, bright pink circle, resembling a sun or a moon, is positioned in the upper center of the background, casting a strong glow. The overall color palette is dominated by shades of pink, magenta, and blue, creating a high-tech, cybernetic atmosphere.

INFORME PREPRO

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PASO 1
READ EXCEL

- Crear un Bloque lector de Excel donde se debe cargar la base de datos dadas por el profesor.
- El header debe ser 0 para que el encabezado se organice según la fecha.

RESULTSEXPLORE

Back To Work

	Fecha	VAL356C18017- Conductividad	VAL356M003-Carga Motor	VAL356M014-Carga Motor	VAL356M015-Carga Motor	VAL356P18026- Ind.Presión	VAL356P18025- Ind.Presión	VAL356T18015- Ind.Temperatura	VAL356T18014- Ind.Temperatura	Estado
0	2006-10-24 23:38:00	12.3	68.026459	45.678056	30.343173	21.492553	20.9	71.883617	103.414846	0
1	2006-10-25 01:38:00	18.9	68.027098	45.924569	30.126654	20.954956	20.6	72.301453	103.487449	0
2	2006-10-25 03:38:00	25.9	68.071664	49.477196	29.701442	21.193045	20.3	71.775536	103.502936	0
3	2006-10-25 05:38:00	27.2	65.658285	51.649763	28.820497	21.021897	20.6	70.589861	103.697800	0
4	2006-10-25 07:38:00	22.0	64.166553	46.851182	27.768388	20.975880	20.4	71.762377	103.600362	0
...
42201	2018-09-06 01:38:00	7.4	NaN	72.696510	43.464317	19.695450	19.5	81.372489	99.598170	0
42202	2018-09-06 03:38:00	7.2	NaN	72.905090	44.050929	19.026046	19.5	81.911505	99.633780	0
42203	2018-09-06 05:38:00	6.9	NaN	72.968914	44.504087	19.523726	19.5	80.810454	99.775918	0
42204	2018-09-06 07:38:00	6.9	NaN	72.905579	44.417335	19.300117	19.5	81.507220	100.136055	0
42205	2018-09-06 09:38:00	7.0	NaN	72.956730	44.203700	19.335450	19.5	81.012430	100.402443	0

42206 rows x 10 columns

Selected Block

Read Excel

Abnir archivo Reboiler

Read Excel

path
C:/Users/victo/OneDrive/Escritorio

read multiple files

name
Reboiler_Raw_Data_With_Timest

header (None / int)
0

PASO 2 DROP COLUMNS

- Eliminar datos de fallas, en este paso se filtran los datos que no son necesarios para el análisis.

RESULTSEXPLORE

Back To Work

DataFrameHTMLTEXT

	fecha	VAL356C18017-Conductividad	VAL356M014-Carga Motor	VAL356M015-Carga Motor	VAL356P18026-Ind.Presión	VAL356P18025-Ind.Presión	VAL356T18015-Ind.Temperatura	VAL356T18014-Ind.Temperatura	estado
0	2006-10-24 23:38:00	12.3	45.679056	30.343173	21.492553	20.9	71.803617	103.414046	0
1	2006-10-25 01:38:00	18.9	45.924569	30.126654	20.954956	20.6	72.301453	103.407449	0
2	2006-10-25 03:38:00	25.9	49.477196	29.701442	21.193045	20.3	71.775536	103.562936	0
3	2006-10-25 05:38:00	27.2	51.648763	28.820497	21.021897	20.6	70.539061	103.697000	0
4	2006-10-25 07:38:00	22.0	46.851102	27.760308	20.975080	20.4	71.762377	103.600362	0
...
42201	2018-09-06 01:38:00	7.4	72.696510	43.464317	19.695450	19.5	81.372409	99.598170	0
42202	2018-09-06 03:38:00	7.2	72.905098	44.050929	19.826046	19.5	81.911505	99.633708	0
42203	2018-09-06 05:38:00	6.9	72.968914	44.504007	19.523726	19.5	80.810454	99.775918	0
42204	2018-09-06 07:38:00	6.9	72.905579	44.417335	19.308117	19.5	81.507220	100.136055	0
42205	2018-09-06 09:38:00	7.0	72.956730	44.203708	19.335458	19.5	81.012430	100.402443	0

42206 rows x 9 columns

Selected Block

Drop Columns

Eliminar datos fallos

Drop Columns

VAL356M003-Carga Motor

PASO 3

RENAME COLUMNS

- Se renombran columnas para tener una mejor visual de la información y así generar mayor entendimiento.

RESULTSEXPLORE

Back To Work

DataFrame

HTMLTEXT

	Fecha	Conductividad	Carga de motor de la bomba M014	Carga de motor de la bomba M015	Sensor de presión pi8026	Sensor de presión pic8025	Sensor T TI8015	Sensor de temperatura T TIC8014	Estado
0	2006-10-24 23:38:00	12.3	45.670056	30.343173	21.492553	20.9	71.803617	103.414046	0
1	2006-10-25 01:38:00	10.9	45.924569	30.126654	20.954956	20.6	72.301453	103.407449	0
2	2006-10-25 03:38:00	25.9	49.477196	29.701442	21.193045	20.3	71.775536	103.502936	0
3	2006-10-25 05:38:00	27.2	51.649763	28.820497	21.021897	20.6	70.509061	103.697800	0
4	2006-10-25 07:38:00	22.0	46.051182	27.760388	20.975800	20.4	71.762377	103.600362	0
...
42201	2018-09-06 01:38:00	7.4	72.696510	43.464317	19.695450	19.5	81.372489	99.598170	0
42202	2018-09-06 03:38:00	7.2	72.905098	44.050929	19.826046	19.5	81.911505	99.633708	0
42203	2018-09-06 05:38:00	6.9	72.968914	44.504067	19.523726	19.5	80.810454	99.775918	0
42204	2018-09-06 07:38:00	6.9	72.905579	44.417335	19.308117	19.5	81.587220	100.136055	0
42205	2018-09-06 09:38:00	7.0	72.956730	44.203700	19.335458	19.5	81.012430	100.402443	0

42206 rows x 9 columns

Rename Columns

GD

label

Renombrar columnas

Rename Columns

VAL356CI8017-Conductividad

Conductividad

VAL356M014-Carga Motor

Carga de motor de la bomba M01

VAL356M015-Carga Motor

Carga de motor de la bomba M01

VAL356PI8026-Ind.Presión

Sensor de presión pi8026

VAL356PIC8025-Ind.Presión

Sensor de presión pic8025

VAL356TI8015-Ind.Temperatura

Sensor T TI8015

VAL356TIC8014-Ind.Temperatura

Sensor de temperatura T TIC801

PASO 4 SET DYPES

- Configurar variables y se separan los datos numéricos con los datos de fecha y hora, variables que son requeridas para el análisis.

RESULTS EXPLORE

Back To Work

DataFrame

HTML TEXT

	Fecha	Conductividad	Carga de motor de la bomba M014	Carga de motor de la bomba M015	Sensor de presion pi0026	Sensor de presion pic0025	Sensor T TI0015	Sensor de temperatura T TIC0014	Estado
0	2006-10-24 23:30:00	12.3	45.670056	30.343173	21.492553	20.9	71.803617	103.414046	0
1	2006-10-25 01:30:00	18.9	45.924569	30.126654	20.954956	20.6	72.301453	103.407449	0
2	2006-10-25 03:30:00	25.9	49.477196	29.791442	21.193045	20.3	71.775536	103.502936	0
3	2006-10-25 05:30:00	27.2	51.649763	28.820497	21.021897	20.6	70.509661	103.697800	0
4	2006-10-25 07:30:00	22.0	46.851182	27.760308	20.975808	20.4	71.762377	103.680362	0
...
42201	2018-09-06 01:30:00	7.4	72.696510	43.464317	19.695450	19.5	81.372489	99.598170	0
42202	2018-09-06 03:30:00	7.2	72.905090	44.050929	19.826046	19.5	81.911505	99.633708	0
42203	2018-09-06 05:30:00	6.9	72.968914	44.504007	19.523726	19.5	80.810454	99.775918	0
42204	2018-09-06 07:30:00	6.9	72.905579	44.417335	19.308117	19.5	81.507220	100.136055	0
42205	2018-09-06 09:30:00	7.0	72.956738	44.203700	19.335458	19.5	81.612438	100.482443	0

42206 rows x 9 columns

Set Dtypes

label

Configurar variables

Set Dtypes

Fecha
datetime

Conductividad
numeric

Carga de motor de la bomba M01
numeric

Carga de motor de la bomba M01
numeric

Sensor de presion pi0026
numeric

Sensor de presion pic0025
numeric

Sensor T TI0015
numeric

Sensor de temperatura T TIC001
numeric

PASO 5

HEADLE MISSING

- Se rellenan valores faltantes nulos no registrados en el análisis.

RESULTSEXPLORE

Back To Work

DataFrameHTMLTEXT

	Fecha	Conductividad	Carga de motor de la bomba M014	Carga de motor de la bomba M015	Sensor de presion p10026	Sensor de presion p1c0025	Sensor T T10015	Sensor de temperatura T T1C0014	Estado
0	2006-10-24 23:38:00	12.3	45.670056	30.343173	21.492553	20.9	71.883617	103.414046	0
1	2006-10-25 01:38:00	18.9	45.924569	30.126654	20.954956	20.6	72.301453	103.487449	0
2	2006-10-25 03:38:00	25.9	49.477196	29.701442	21.193045	20.3	71.775536	103.502936	0
3	2006-10-25 05:38:00	27.2	51.649763	28.820497	21.021897	20.6	70.589061	103.697800	0
4	2006-10-25 07:38:00	22.0	46.051182	27.760388	20.975880	20.4	71.762377	103.600362	0
...
42201	2018-09-06 01:38:00	7.4	72.696510	43.464317	19.695450	19.5	81.272489	99.590170	0
42202	2018-09-06 03:38:00	7.2	72.905098	44.050929	19.826046	19.5	81.911505	99.633708	0
42203	2018-09-06 05:38:00	6.9	72.960914	44.504087	19.523726	19.5	80.010454	99.775918	0
42204	2018-09-06 07:38:00	6.9	72.905579	44.417335	19.308117	19.5	81.587220	100.136055	0
42205	2018-09-06 09:38:00	7.0	72.956738	44.203700	19.335450	19.5	81.812438	100.402443	0

42206 rows x 9 columns

Selected Block

Handle Missings

label

Reellenar valores faltantes

Handle Missing Values

PASO 6

FILTER ROWES

- Se filtran los datos según rubrica especificada por el profesor, el cual dejamos los datos desde el 2016 en adelante.

RESULTS EXPLORE

Back To Work

DataFrame

HTML TEXT

	Fecha	conductividad	carga de motor de la bomba m014	carga de motor de la bomba m015	sensor de presión pi0026	sensor de presión pi0025	sensor T TI0015	sensor de temperatura T TIC0014	Estado
30676	2016-01-08 11:38:00	4.5	69.658713	42.208192	18.769251	19.8	79.399877	99.160674	0
30677	2016-01-08 13:38:00	4.4	67.954487	42.381221	18.411820	19.8	78.184952	98.775669	0
30678	2016-01-08 15:38:00	4.2	69.688686	41.967134	18.681841	19.8	80.599828	101.165308	0
30679	2016-01-08 17:38:00	4.2	69.274182	42.124866	18.582166	19.8	79.381819	99.934365	0
30680	2016-01-08 19:38:00	4.2	69.895421	41.588124	18.593953	19.8	80.170472	100.884536	0
...
42201	2018-09-06 01:38:00	7.4	72.696518	43.464317	19.695458	19.5	81.372489	99.598178	0
42202	2018-09-06 03:38:00	7.2	72.985898	44.858929	19.826846	19.5	81.911585	99.633788	0
42203	2018-09-06 05:38:00	6.9	72.968914	44.584887	19.523726	19.5	80.810454	99.775918	0
42204	2018-09-06 07:38:00	6.9	72.985579	44.417335	19.388117	19.5	81.587228	100.136855	0
42205	2018-09-06 09:38:00	7.8	72.956738	44.203788	19.335458	19.5	81.812438	100.482442	0

11538 rows x 9 columns

Selected Block

Filter Rows

label

Filtrar parametros en funcion de li

Filter Rows

Keep rows where:

Fecha >= 2016-01-01 00:00:00

PASO 7 SET INDEX

- Establecer fecha como índice para cada fila de los dato a evaluar.

RESULTSEXPLORE

Back To Work

DataFrameHTMLTEXT

	Conductividad	Carga de motor de la bomba M014	Carga de motor de la bomba M015	Sensor de presion p10026	Sensor de presion pic0025	Sensor T TI0015	Sensor de temperatura T TIC0014	Estado
Fecha								
2016-01-08 11:38:00	4.5	69.650713	42.280192	18.769251	19.0	79.399877	99.160674	0
2016-01-08 13:38:00	4.4	67.954487	42.381221	18.411820	19.0	78.184951	98.775669	0
2016-01-08 15:38:00	4.2	69.688606	41.967134	18.601841	19.0	80.599028	101.165388	0
2016-01-08 17:38:00	4.2	69.274182	42.124866	18.582166	19.0	79.381819	99.934365	0
2016-01-08 19:38:00	4.2	69.095421	41.588124	18.593953	19.0	80.170472	100.004536	0
...
2018-09-06 01:38:00	7.4	72.696510	43.464317	19.695450	19.5	81.372489	98.590170	0
2018-09-06 03:38:00	7.2	72.905098	44.058929	19.826846	19.5	81.911505	99.633788	0
2018-09-06 05:38:00	6.9	72.968914	44.584087	19.523726	19.5	80.810454	99.775918	0
2018-09-06 07:38:00	6.9	72.905579	44.417335	19.380117	19.5	81.587220	100.136855	0
2018-09-06 09:38:00	7.0	72.956738	44.203780	19.335458	19.5	81.612438	100.482443	0

11530 rows x 8 columns

Selected Block

Set Index

label

Establecer fecha como indice

Set Index

Fecha

PASO 8

FILTER ROWS

- Según lo pedido por el profesor en este análisis se incluye la eliminación de outlier del sensor de conductividad, el cual deben ser eliminados en el data cuando la conductividad es superior a 12 microsiemens/cm.

RESULTSEXPLORE

Back To Work

DataFrameHTMLTEXT

	Conductividad	Carga de motor de la bomba M014	Carga de motor de la bomba M015	Sensor de presion pi0026	Sensor de presion pic0025	Sensor T TI0015	Sensor de temperatura T TIC0014	Estado
Fecha								
2016-01-00 11:30:00	4.5	69.650713	42.200192	10.769251	19.0	79.399077	99.160674	0
2016-01-00 13:30:00	4.4	67.954407	42.301221	10.411020	19.0	78.104952	98.775669	0
2016-01-00 15:30:00	4.2	69.600606	41.967134	10.601041	19.0	80.599020	101.165300	0
2016-01-00 17:30:00	4.2	69.274102	42.124066	10.502166	19.0	79.301019	99.934365	0
2016-01-00 19:30:00	4.2	69.095421	41.500124	10.593953	19.0	80.170472	100.004536	0
...
2018-09-06 01:30:00	7.4	72.696510	43.464317	19.695450	19.5	81.372409	99.590170	0
2018-09-06 03:30:00	7.2	72.905090	44.050929	19.826046	19.5	81.911505	99.633700	0
2018-09-06 05:30:00	6.9	72.960914	44.504007	19.523726	19.5	80.810454	99.775910	0
2018-09-06 07:30:00	6.9	72.905579	44.417335	19.300117	19.5	81.507220	100.136055	0
2018-09-06 09:30:00	7.0	72.956730	44.203700	19.335450	19.5	81.812430	100.402443	0

11166 rows x 8 columns

Selected Block

Filter Rows

label

Filtrar parametros en funcion de li

Filter Rows

Keep rows where:

Conductividad <= 12

PASO 9 RESAMPLE

- Se Configura una celda para remuestreo disponible establecida en el lapso de 120 minutos (2horas).

RESULTS EXPLORE Back To Work

Resampler TEXT

`<pandas.core.resample.DatetimeIndexResampler object at 0x00000207832E0088>`

First Window TEXT

`Timestamp('2016-01-08 10:00:00', freq='120T')`

HTML TEXT

	Conductividad	Carga de motor de la bomba #B014	Carga de motor de la bomba #B015	Sensor de presion pi0026	Sensor de presion pic0025	Sensor T T18015	Sensor de temperatura T TIC8014	Estado
Fecha								
2016-01-08 11:38:00	4.5	69.658713	42.280192	18.769251	19.0	79.399877	99.168674	0

Second Window TEXT

`Timestamp('2016-01-08 12:00:00', freq='120T')`

HTML TEXT

	Conductividad	Carga de motor de la bomba #B014	Carga de motor de la bomba #B015	Sensor de presion pi0026	Sensor de presion pic0025	Sensor T T18015	Sensor de temperatura T TIC8014	Estado
Fecha								
2016-01-08 13:38:00	4.4	67.954487	42.381221	18.41102	19.0	78.184952	98.775669	0

Selected Block

Resample GD

label
Resample data reboiler

Resample

rule: 120T

PASO 10

AGREGATE

- Luego de realizar el remuestreo, se agrega un bloque llamado aggregate ya que siempre tiene que ir después del remuestreo, el cual tiene diferentes funciones estadísticas que realizan un resumen sobre columnas de datos.

RESULTSEXPLORE

Back To Work

DataFrameHTMLTEXT

	Conductividad	Carga de motor de la bomba HB14	Carga de motor de la bomba HB15	Sensor de presion pi0026	Sensor de presion pic0025	Sensor T T10015	Sensor de temperatura T T1C0014	Estado
Fecha								
2016-01-08 10:00:00	4.5	69.658713	42.200192	18.769251	19.8	79.399877	99.168674	0.0
2016-01-08 12:00:00	4.4	67.954487	42.381221	18.411828	19.8	78.184952	98.775669	0.0
2016-01-08 14:00:00	4.2	69.688686	41.967134	18.601041	19.8	80.599820	101.165300	0.0
2016-01-08 16:00:00	4.2	69.274182	42.124866	18.582166	19.8	79.381819	99.934365	0.0
2016-01-08 18:00:00	4.2	69.895421	41.588124	18.593953	19.8	80.178472	100.884536	0.0
...
2018-09-06 00:00:00	7.4	72.696510	43.464317	19.695450	19.5	81.372489	99.598178	0.0
2018-09-06 02:00:00	7.2	72.985898	44.858929	19.826846	19.5	81.911505	99.633708	0.0
2018-09-06 04:00:00	6.9	72.968914	44.584087	19.523726	19.5	80.818454	99.775910	0.0
2018-09-06 06:00:00	6.9	72.985579	44.417335	19.388117	19.5	81.587228	100.136055	0.0
2018-09-06 08:00:00	7.8	72.956738	44.283788	19.335458	19.5	81.812438	100.482443	0.0

11664 rows x 9 columns

Selected Block

Aggregate

label

Agregar el resampling a la data

Aggregate

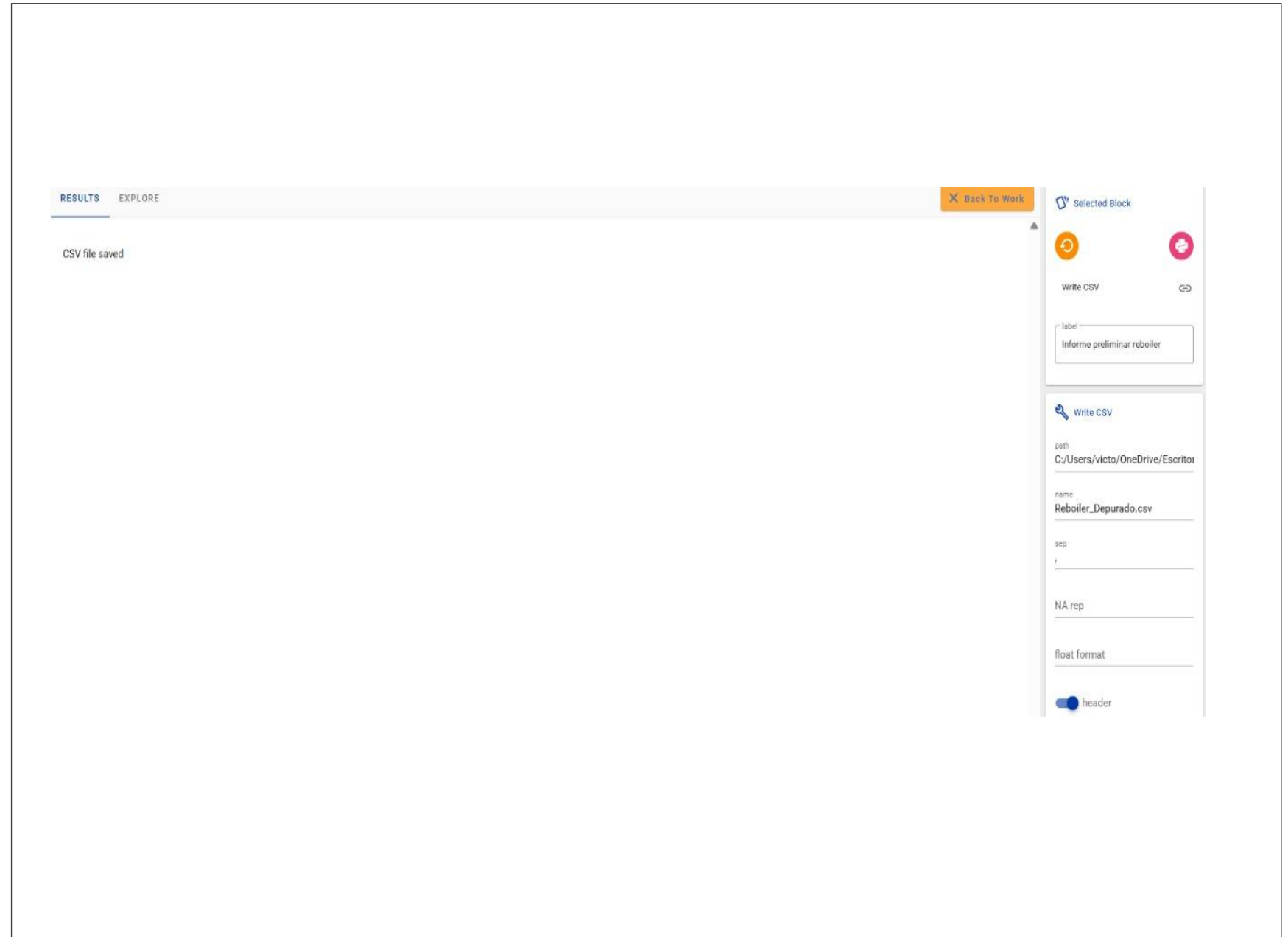
All Columns

median

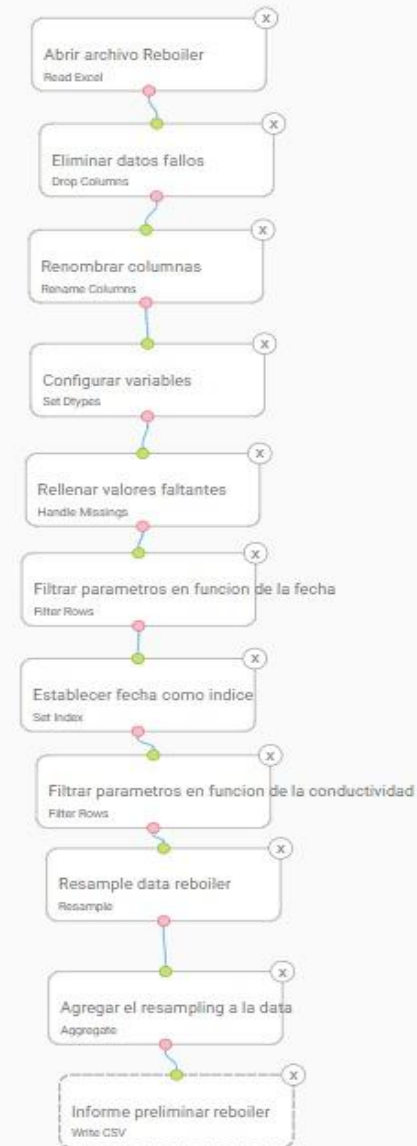
PASO 11

READ CSV

- Se incorpora el bloque que nos permite descargar el archivo CSV.



- De esta forma
Nuestro primer
encadenado queda
con la siguiente
distribución.



PASO 12

READ CSV

Se realiza otro bloque el cual nos permite descargar Nuestro reboiler depurado.

RESULTSEXPLORE

Back To Work

DataFrameHTMLTEXT

	Fecha	conductividad	Carga de motor de la bomba M014	Carga de motor de la bomba M015	Sensor de presion p10026	Sensor de presion p1c0025	Sensor T TI0015	Sensor de temperatura T TIC0014	Estado
0	2016-01-08 10:00:00	4.5	69.658713	42.280192	18.769251	19.0	79.399877	99.160674	0.0
1	2016-01-08 12:00:00	4.4	67.954487	42.381221	18.411028	19.0	78.104952	98.775669	0.0
2	2016-01-08 14:00:00	4.2	69.688686	41.967134	18.601041	19.0	80.599020	101.165308	0.0
3	2016-01-08 16:00:00	4.2	69.274182	42.124866	18.582166	19.0	79.301819	99.934365	0.0
4	2016-01-08 18:00:00	4.2	69.095421	41.588124	18.593953	19.0	80.170472	100.004536	0.0
...
11659	2018-09-06 00:00:00	7.4	72.696510	43.464317	19.695450	19.5	81.372409	99.598170	0.0
11660	2018-09-06 02:00:00	7.2	72.905898	44.858929	19.826046	19.5	81.911505	99.633708	0.0
11661	2018-09-06 04:00:00	6.9	72.968914	44.584067	19.523726	19.5	80.810454	99.775918	0.0
11662	2018-09-06 06:00:00	6.9	72.905579	44.417335	19.388117	19.5	81.587220	100.136855	0.0
11663	2018-09-06 08:00:00	7.0	72.956738	44.203780	19.335458	19.5	81.812438	100.482443	0.0

11664 rows x 9 columns

Selected Block

Read CSV

label

Abrir informe preliminar reboiler

Read CSV

path

C:/Users/victo/OneDrive/Escritorio

read multiple files

name

Reboiler_Depurado.csv

sep

header (infer / None / int)

0

decimal

PASO 13

SET DTYPES

- Se reconfiguran variables como fecha y hora.

RESULTSEXPLORE

Back To Work

DataFrameHTMLTEXT

	fecha	conductividad	Carga de motor de la bomba M014	Carga de motor de la bomba M015	Sensor de presion p10026	Sensor de presion p10025	Sensor T Y10015	Sensor de temperatura T Y10014	Estado
0	2016-01-08 10:00:00	4.5	69.658713	42.280192	19.769251	19.0	79.399877	99.160674	0.0
1	2016-01-08 12:00:00	4.4	67.954487	42.381221	19.411020	19.0	78.184952	98.775669	0.0
2	2016-01-08 14:00:00	4.2	69.688606	41.967134	19.601041	19.0	80.999028	101.165308	0.0
3	2016-01-08 16:00:00	4.2	69.274182	42.124866	19.582166	19.0	79.301819	99.934365	0.0
4	2016-01-08 18:00:00	4.2	69.895421	41.588124	19.593953	19.0	80.170472	100.804536	0.0
...
11659	2018-09-06 00:00:00	7.4	72.696510	43.464317	19.695450	19.5	81.372489	99.598170	0.0
11660	2018-09-06 02:00:00	7.2	72.985896	44.858929	19.826046	19.5	81.911585	99.633706	0.0
11661	2018-09-06 04:00:00	6.9	72.968914	44.584087	19.523726	19.5	80.810454	99.775918	0.0
11662	2018-09-06 06:00:00	6.9	72.985879	44.427335	19.308117	19.5	81.587220	100.136055	0.0
11663	2018-09-06 08:00:00	7.0	72.958738	44.283788	19.335458	19.5	81.812438	100.482443	0.0

1664 rows x 9 columns

Selected Block

Set DtypesGD

labelReconfigurando variables

Set Dtypes

Fechadatetime

PASO 14 SET INDEX

- Se reestablece fecha como índice.

RESULTSEXPLORE

Back To Work

DataFrameHTMLTEXT

	Conductividad	Carga de motor de la bomba M014	Carga de motor de la bomba M015	Sensor de presion pi8026	Sensor de presion pic8025	Sensor T TI8015	Sensor de temperatura T TIC8014	Estado
Fecha								
2016-01-08 10:00:00	4.5	69.658713	42.208192	18.769251	19.0	79.399877	99.168674	0.0
2016-01-08 12:00:00	4.4	67.954487	42.381221	18.411828	19.0	78.184952	98.775669	0.0
2016-01-08 14:00:00	4.2	69.688686	41.967134	18.681041	19.0	80.599828	101.165380	0.0
2016-01-08 16:00:00	4.2	69.274182	42.124866	18.582166	19.0	79.381819	99.934265	0.0
2016-01-08 18:00:00	4.2	69.895421	41.588124	18.593953	19.0	80.178472	100.804536	0.0
...
2018-09-06 00:00:00	7.4	72.696518	43.464317	19.695458	19.5	81.372489	99.588170	0.0
2018-09-06 02:00:00	7.2	72.985898	44.858929	19.826046	19.5	81.911505	99.633788	0.0
2018-09-06 04:00:00	6.9	72.968914	44.584887	19.523726	19.5	80.818454	99.775918	0.0
2018-09-06 06:00:00	6.9	72.985579	44.417335	19.388117	19.5	81.587220	100.136055	0.0
2018-09-06 08:00:00	7.0	72.956738	44.289788	19.335458	19.5	81.812438	100.482443	0.0

11664 rows x 8 columns

Selected Block

Set Index

Re-establecer la fecha como indic

Set Index

Fecha

PASO 15

DROP COLUMNS SELECT COLUMNS

Se instalan dos bloques en paralelo con el objetivo que en un bloque se coloquen los sensores a medir y en el segundo bloque el estado/condición.



PASO 15

NORMAL/ANOMAL SPLINT

Se realizan ventanas de 48 hrs para poder tener de forma horizontal lecturas en tiempo de 24 hrs.

RESULTSEXPLORE

shapes

```
{'x_train': '6930 x (24, 7)',  
'x_test': '4618 x (24, 7)',  
'y_test': '4618 x ()'}
```

x train

```
array([[0.075      , 0.          , 0.          , ..., 0.97244546,  
        0.04825028, 0.04985567],  
       [0.06666667, 0.          , 0.          , ..., 0.97359357,  
        0.04376356, 0.04759148],  
       [0.03333333, 0.          , 0.          , ..., 0.97474168,  
        0.04005303, 0.04532452],  
       ...,  
       [0.425      , 0.34688851, 0.          , ..., 0.09184845,  
        0.54833319, 0.60526058],  
       [0.425      , 0.4392253 , 0.          , ..., 0.09184845,  
        0.55303714, 0.60635885],  
       [0.425      , 0.88274552, 0.31740714, ..., 0.09184845,  
        0.56139741, 0.61327906]],  
  
       [[0.34166667, 0.9168376 , 0.81393625, ..., 0.04707233,  
        0.61849149, 0.59986594],  
       [0.34166667, 0.91204282, 0.79779197, ..., 0.04707233,  
        0.594917  , 0.59271708],  
       [0.33333333, 0.91711313, 0.77106577, ..., 0.04707233,  
        0.58832519, 0.59853372],  
       ...,  
       [0.35      , 0.92765454, 0.77573517, ..., 0.05281286,  
        0.62741318, 0.60345964],  
       [0.35      , 0.92409917, 0.76873375, ..., 0.05281286,  
        0.62935807, 0.60665666],
```


PASO 16

WRITE NORMAL/ANOR MAL NPZ

Finalmente luego de realizar los filtros requeridos podemos descargar nuestros archivos reboiler NPZ.

